

### Advisory Board Quarterly Meeting

Presented to

District Energy Advisory Board

May 17, 2007



### **Agenda**

- 1. Call to Order
- 2. Introduction of new DES Contract Administrator
- 3. Review and Approval of February 22, 2007 Meeting Minutes
- 4. Review and Comparison of DES Unit Costs
- 5. Review of Operations Monitoring Reports
- 6. Natural Gas Purchasing Up-Date
- 7. Financial Report Third Quarter FY 07
- 8. Status of Budget FY2008
- 9. Capital Projects Review
- 10. Customer Contract Capacity Reviews
- 11. Service Interruption Procedures
- 12. Gas Purchasing Rate Stabilization Fund
- 13. Other Board Member Items
- 14. Adjourn



# 1. Call to Order



# 2. Introduction of New DES Contract Administrator

- Harry Ragsdale, President
- Dan Coyle, Vice-President
- Jon Belcher, P.E.
- Kevin Jacobs, P.E





# 3. Review and Approval of Meeting Minutes of February 22, 2007



### 4. Review and Comparison of DES Unit Costs

Summary Table 4A – 2007 vs 2006 Unit Costs for Complete Calendar Year



#### **Summary Table 4A - 2007 vs. 2006 YTD Unit Costs**

Previous	Stea	ım (\$ per r	n lb)	Chilled Water (\$ per ton-hr)			
12 Months	2006	2007	% Diff.	2006	2007	% Diff.	
Private	\$25.49	\$26.45	2.0%	\$0. 179	\$0.165	-7.6%	
State	\$23.98	\$25.83	7.7%	\$0.161	\$0.162	0.73%	
Metro	\$34.59	\$28.99	-16.2%	\$0.232	\$0.145	-37.4%	
All Initial System Customers	\$26.40	\$27.31	3.4%	\$0.181	\$0.167	-7.9%	



# 5. Review of Operations Monitoring Reports for 3rd Quarter FY 2007



#### **Quarterly Monitoring Report Outline**

- 1. Operations
  - Summary
  - Steam: Sales, Sendout and Losses
  - Chilled Water: Sales, Sendout and Losses
- 2. Performance Measurement
  - Steam: Fuel, Condensate Return, Electricity, Water
  - Chilled Water: Electricity, Water
- 3. Facility Walk-through Performed quarterly



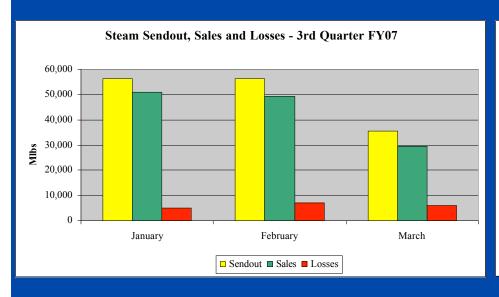
#### **Summary**

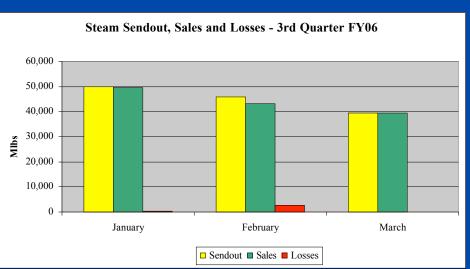
#### **3rd Quarter FY 2007 vs 3rd Quarter FY 2006**

- Weather
  - Heating Degree Days cooler than last year with 49 more HDD (2.8%)
  - Cooling Degree Days warmer than last year with 39 more CDD
- Sales
  - Steam less than last year by 1,808 Mlbs (1.4%)
  - Chilled Water more than last year by 2,713,000 ton hrs (26%)
- Energy Use
  - Electricity for Steam Production -- more than last year by 20,556 kwh (6.3%)
  - Electricity for CHW Production more than last year by 991,230 kwh (12%)
  - Natural Gas for Steam Production more than last year by 25,675 MMBTU (12%)
- Water Use
  - Water for Steam Production more than last year by 3,728,00 gallons (18%)
  - Water for CHW Production more than last year by 3,361,000 gallons (17%)



# **Operations Steam Sales, Sendout and Losses**

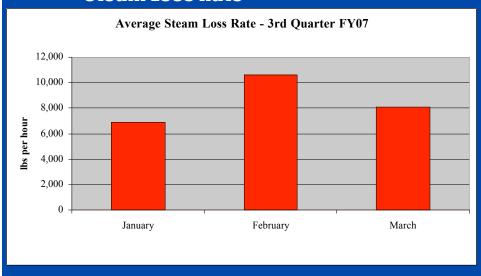


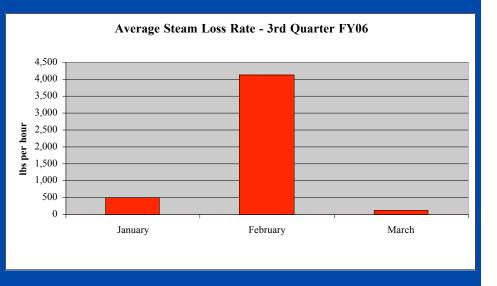




#### **Operations**

#### **Steam Loss Rate**





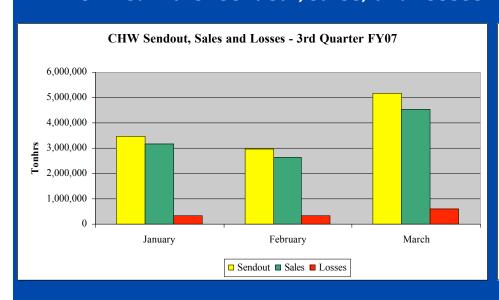
 Percent
 9.15%
 12.65%
 16.93%
 0.74%
 6.06%
 0.25%

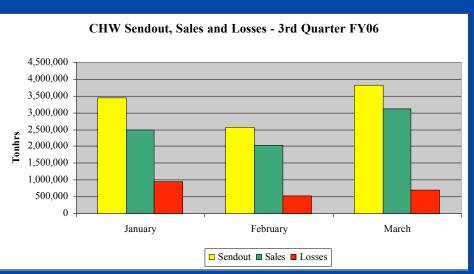
 of Sendout
 FY 2007
 FY 2006
 FY 2006</th



#### **Operations**

#### **Chilled Water Sendout, Sales, and Losses**

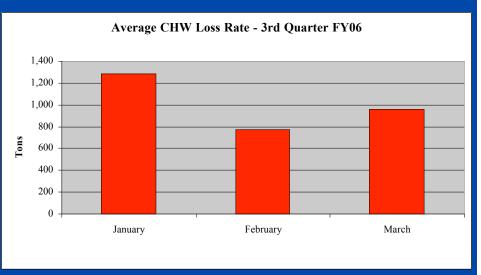






# Operations CHW Loss Rate

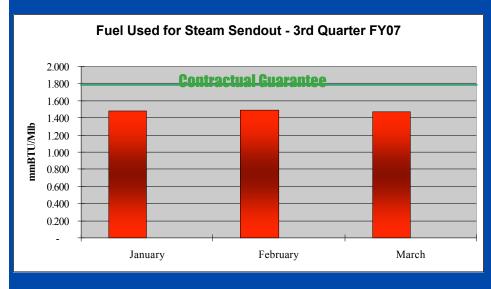


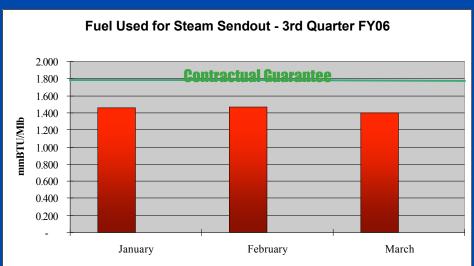


Percent Of Sendout	9.16%	11.03%	11.79%	27.85%	20.34%	18.58%
		FY 2007		FY	2006	



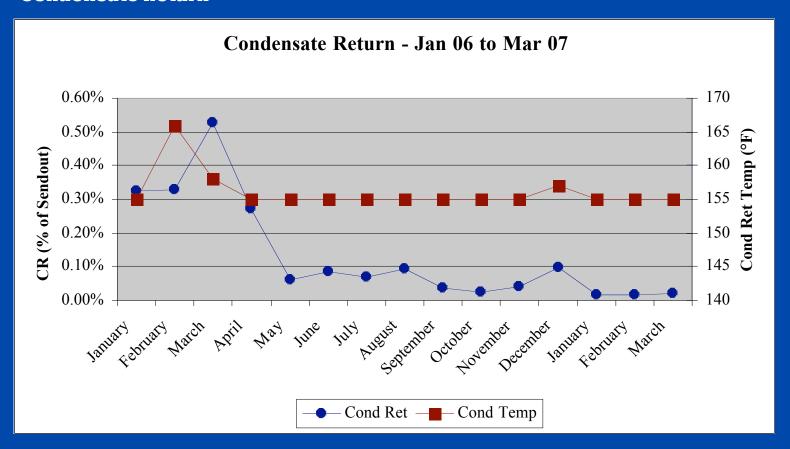
#### Performance Measurement Fuel used for Steam Sendout







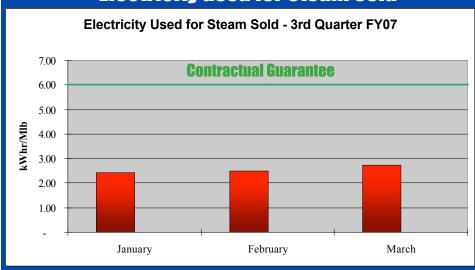
#### Performance Measurement Condensate Return

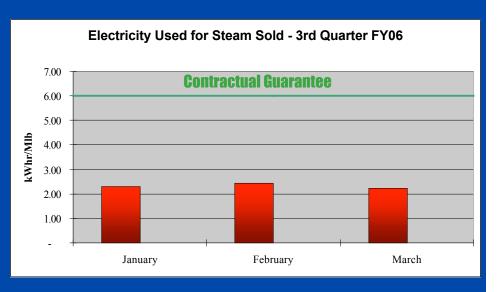




#### **Performance Measurement**

#### **Electricity used for Steam Sold**

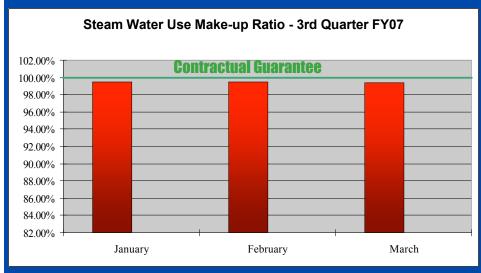


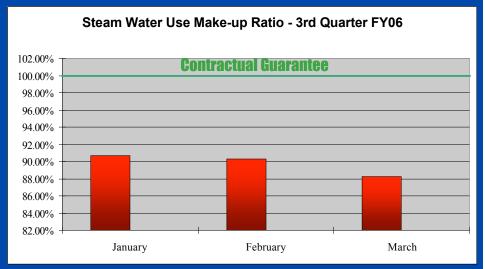




#### **Performance Measurement**

#### **Steam Makeup Water Use**

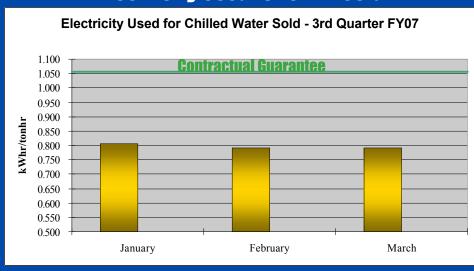


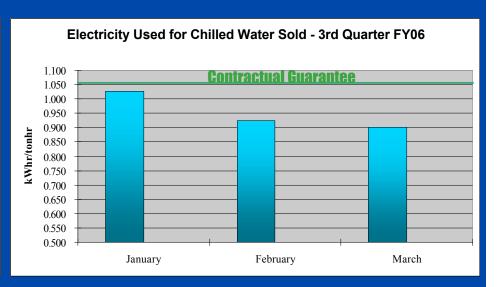




#### **Performance Measurement**

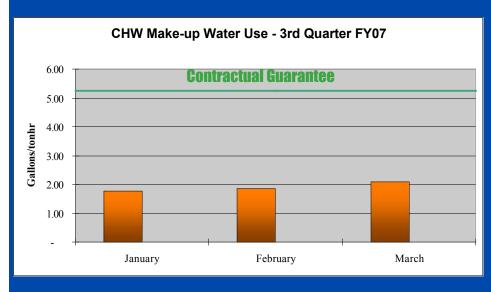
#### **Electricity Used for CHW Sold**

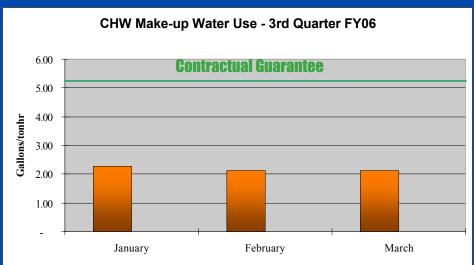






# Performance Measurement CHW Makeup Water Use







### **Facility Walk-through**



#### **Quarterly Inspection Process**

- Log Book
- Housekeeping
- Maintenance work in process
- Building Structure
- Safety Equipment
- Instrumentation and controls
- Building exterior and grounds
- Document with digital photos



# The EGF is Clean and Well-Maintained





## 6. Natural Gas Purchasing Up-date

Natural Gas Purchasing Review

- Table 6A FY07 Gas Spending v. Budget
- Table 6B Projected Gas Costs for FY08



# **Table 6A - Natural Gas Fiscal Year to Date (July 2006 through March 2007)**

FY07 Budget							
Steam Sold	Steam Out	Deca- therms	Price per Dt	Dt per mlb out	Price per mlb out	Gas Cost All- in	
298,487	346,269	579,402	\$12.495	1.500	\$18.74	\$6,498,777	
FY07 Actual							
279,465	330,583	492,649	\$9.817	1.490	\$14.90	\$4,836,282	



## Table 6B - Projected Gas Costs for FY08

								NDES Targeted Hedge Volumes		
	Estimated	Hedged	Hedge	Current	Average	Marked to	Actual Hedged	NDES Target	% of NDES	# Contracts to
	Consumption	Quantity Dth	WACOG Price	Market Price	Commodity Price	Market Value	Percentage Level	Hedge	Target Volume	Meet NDES
	(Dth)	Dlii	Price	Price	Price	(Loss)/Gain	Levei	Percentage	Unhedged	Target
Jul-07	26,000	12,900	\$8.308	\$7.870	\$8.087	-\$5,646.33	50%	80%	30%	0.7900
Aug-07	27,000	13,500	\$8.286	\$7.984	\$8.135	-\$4,070.25	50%	80%	30%	0.8100
Sep-07	34,000	17,100	\$8.347	\$8.038	\$8.193	-\$5,283.90	50%	80%	30%	1.0100
Oct-07	48,000	24,200	\$8.322	\$8.148	\$8.236	-\$4,210.80	50%	80%	30%	1.4200
Nov-07	62,000	18,600	\$8.577	\$8.828	\$8.753	\$4,672.32	30%	80%	50%	3.1000
Dec-07	81,000	16,100	\$8.366	\$9.503	\$9.277	\$18,302.48	20%	80%	60%	4.8700
Jan-08	86,000	16,800	\$8.326	\$9.838	\$9.543	\$25,399.92	20%	80%	60%	5.2000
Feb-08	72,000	14,500	\$8.361	\$9.828	\$9.533	\$21,265.70	20%	80%	60%	4.3100
Mar-08	62,000	12,200	\$8.372	\$9.588	\$9.349	\$14,841.30	20%	80%	60%	3.7400
Apr-08	50,000	4,600	\$7.940	\$8.278	\$8.247	\$1,554.80	9%	80%	71%	3.5300
May-08	36,000	3,300	\$7.940	\$8.150	\$8.131	\$693.00	9%	80%	71%	2.5500
Jun-08	28,000	2,400	\$7.940	\$8.220	\$8.196	\$672.00	9%	80%	71%	1.9900
Summary	612,000	156,200	\$8.338	\$8.689	\$8.855	\$68,190.24	26%	80%	54%	33.3300

The result of the conference call (05/03/07) was to increase the hedged amounts highlighted by 10%



# 7. Financial Reports – Third Quarter FY07

		FY07 Budget	3rd Quarter		FY07 Spending	
			Cum. %	FY07 Budget	through March	% over
Item			of Budget	for 3 Quarters	'06	(under)
FOC	Basic	\$3,659,463	75.0%	\$2,744,597	\$2,744,597	0.0%
	9th Chiller	\$34,289	75.0%	\$25,717	\$25,718	0.0%
	C/O 6A	\$67,698	75.0%	\$50,774	\$50,774	0.0%
	C/O 6B	\$59,267	75.0%	\$44,450	\$41,498	-6.6%
Chemicals		\$132,870	74.8%	\$99,393	\$116,933	17.6%
Engineering	g	\$53,788	75.0%	\$40,341	\$0	-100.0%
Insurance		\$32,632	100.0%	\$32,632	\$39,883	22.2%
Marketing	- CES Sales Activity	\$30,000	75.0%	\$22,500	\$14,559	-35.3%
	- Metro Marketing	\$59,700	75.0%	\$44,775	\$37,716	-15.8%
	- Incentive Payments	\$28,528	75.0%	\$21,396	\$21,311	-0.4%
	- Metro Project Admin	\$61,300	75.0%	\$45,975	\$0	-100.0%
Metro Incre	emental Cost	\$592,100	75.0%	\$444,075	\$395,985	-10.8%
Water		\$693,918	74.8%	\$519,082	\$398,468	-23.2%
Natural Ga	s	\$8,015,491	84.7%	\$6,792,880	\$5,033,570	-25.9%
Electricity		\$4,318,594	72.0%	\$3,111,093	\$2,846,158	-8.5%
EDS Repai	r & Improvement	\$161,363	75.0%	\$121,022	\$6,429	-94.7%
EDS Surch	arge	\$64,438	75.0%	\$48,329	incl.	
FEA	Steam				\$145,027	
	CHW				\$51,800	
	Subtotal - Operations	\$18,065,440	78.7%	\$14,209,031	\$11,970,426	-15.8%
Debt Service	ce 2002 Bonds	\$4,299,502	75.0%	\$3,224,626	\$3,226,070	0.0%
	2005 Bonds	\$637,838	29.6%	\$188,919	\$188,919	0.0%
Oper. Rese	erve Funding Deposit	\$433,274	75.0%	\$324,956	\$348,720	7.3%
	Total	\$23,436,054	76.6%	\$17,947,5 <u>32</u>	\$15,734,134	-12.3%
Metro Fund	ding Amount	\$2,282,182	75.0%	\$1,711,637	\$1,254,164	-26.7%



# 8. Status of Budget FY08

The Operating Budget was submitted to Metro Council and is currently under review.



# 9. Capital Projects Review:

- Table 9A Capital Projects Summary
- Table 9B Update of Capital Projects



#### **Table 9A - Capital Project Status Summary – 3/31/07**

	Spent to End of 2 <sup>nd</sup> Qrtr	3 <sup>rd</sup> Qrtr Spending	Balance at End of 3 <sup>rd</sup> Qrtr
2002A Bond Projects	\$3,458,182	\$160,394	\$163,126
R&I Projects	\$113,471	\$3,408	\$236,584
2005B Bond Projects	\$7,354,531	\$21,498	\$810,983
2007 Bond Projects	\$0	\$31,822	\$2,826,687
Total	\$10,926,184	\$217,122	\$4,037,470



Table 9B – Capital Projects as of 3/31/07	Budget	Spent through 3/31/07	Remaining to Be Spent
	Baaget	0/01/01	Openi
2002A Projects			
Tennessee Towers Decoupling	\$1,350,422	\$1,187,296	\$163,126
<u>Total Closed Projects</u>	<u>\$2,377,281</u>	<u>\$2,377,281</u>	<u>\$0</u>
Total 2002A Projects	\$3,727,703	\$3,564,577	\$163,126
Repair/Improvement	\$353,463	\$116,879	\$236,584
2005B Projects			
Renaissance Re-piping	\$538,818	\$555,229	(\$16,412)
Customer Metering	\$1,676,439	\$1,649,794	\$26,645
General and Admin	\$1,186,710	\$385,963	\$800,746
<u>Total Closed Projects</u>	<u>\$4,785,044</u>	<u>\$4,785,042</u>	<u>\$2</u>
Total 2005B Projects	\$8,187,011	\$7,376,028	\$810,981



Table 9B – Capital Projects as of 3/31/07 (Continued)	Budget	Spent through 3/31/07	Remaining to Be Spent
2007 Projects			
MH 18 to L Steam/Cond Replacement	\$818,206	\$0	\$818,206
TN Tower Cond Line Replacement	\$317,031	\$0	\$317,031
MH 5 to 6 Cond Replacement	\$489,688	\$0	\$489,688
JK Polk Cond Line	\$413,123	\$0	\$413,123
Tunnel Lighting Ph II	\$152,551	\$0	\$152,551
General and Admin	\$484,152	\$11,313	\$472,839
Total Closed Projects	<u>\$183,758</u>	<u>\$20,509</u>	<u>\$163,249</u>
Total 2007 Projects	\$2,858,509	\$31,822	\$2,826,687



# 10. Customer Contract Capacity Reviews

- Contract Demand vs Actual Demand see Handout
- Notice Provided to Customers see Handout



# 11. Service Interruption Procedures



# 12. Gas Purchasing Rate Stabilization Fund



## **13. Other Board Member Items**

14. Adjourn